Section-B

(Short Answer)

Note: **Answer any EIGHT of the following questions. Each question carries 05 marks.**

Q.2: What is the contribution of Jabir-Ibne Hayan in the field of Chemistry?

Q.3: Calculate the molar mass of CH_3COOH.

Q.4: Out line the main points of Dalton's atomic theory.

Q.5: Write note on any ONE of the following:

Electronegativity Heavy water

Q.6: Distinguish between Covalent bond and Co-ordinate Covalent bond.

Q.7: What is Brownian movement? Describe with suitable examples.

Q.8: Give the formula of the following salts:

(a) Sodium Carbonate (b) Baking Soda (c) Blue Vitrol

(d) Epsam Salt (e) Potash Alum

Q.9: Ozone is important in the upper atomosphere, why?

Q.10: Draw the structure formulas for the three isomers of Pentane.

Q.11: Give any five physical properties of silicon.

Q.12: Calculate the pH of 5.2×10^{-4} M-HNO_3

Q.13: Balance the following equations:

(i) $NaHCO_3 \dashrightarrow Na_2CO_3 + H_2O + CO_2$

(ii) $CH_4 + O_2 \dashrightarrow CO_2 + H_2O$

(iii) $Al_2O_3 + NaOH \dashrightarrow NaAlO_2 + H_2O$

(iv) $KNO_3 \dashrightarrow KNO_2 + O_2$

(v) $C_{12}H_{22}O_{11} \dashrightarrow C + H_2O$

Section-C

(Despcriptive Answer)

Note: **Answer any TWO of the following questions. Each question carries 14 marks.**

Q.14: (a) How methane is prepared? Give its properties.

(b) Can one substance have same empirical formula and molecular formula? Explain with the help fo examples.

Q.15(a) Describe the structure and working of lead storage battery.

(b) Explain why 100 ml solution of KNO_3 can not hold more than 37 gm of KNO_3 in dissolved state.

Q.16(a) Differentiate between termoplastic and thermosetting plastic.

(b) Describe discovery of electron in detail.

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